Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Because the Margin is relatively large, only one worst point is recorded in the report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (Horizontal and Vertical), the worst emission was found in position and the worst case and worst Antenna was recorded.

NR SA	Z axis, Vertical polarization

NR n2 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3755.00	-65.15	2.60	12.50	Vertical	-55.25	-13.00	42.25	14
	3	5611.00	-61.57	3.30	12.50	Vertical	-52.37	-13.00	39.37	22
	4	7510.00	-56.22	4.20	12.20	Vertical	-48.22	-13.00	35.22	175
	5	9387.50	-53.53	4.30	11.10	Vertical	-46.73	-13.00	33.73	28
	6	11266.60	-53.19	5.90	11.90	Vertical	-47.19	-13.00	34.19	76
	7	13142.50	-51.64	5.70	14.00	Vertical	-43.34	-13.00	30.34	28
	8	15020.00	-55.10	5.80	13.10	Vertical	-47.80	-13.00	34.80	14
	9	16897.50	-50.76	6.10	14.60	Vertical	-42.26	-13.00	29.26	62
	10	18775.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n5 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1668.00	-72.11	1.70	8.70	Vertical	-67.26	-13.00	54.26	49
	3	2502.00	-69.09	2.30	12.00	Vertical	-61.54	-13.00	48.54	9
	4	3336.00	-65.61	2.70	12.70	Vertical	-57.76	-13.00	44.76	14
	5	4170.00	-61.25	3.00	12.50	Vertical	-53.90	-13.00	40.90	22
	6	5004.00	-58.86	3.40	12.50	Vertical	-51.91	-13.00	38.91	175
	7	5838.00	-59.37	3.40	12.80	Vertical	-52.12	-13.00	39.12	28
	8	6672.00	-57.25	4.10	11.50	Vertical	-52.00	-13.00	39.00	76
	9	7506.00	-53.80	4.20	12.20	Vertical	-47.95	-13.00	34.95	28
	10	8340.00	-53.10	4.30	12.50	Vertical	-47.05	-13.00	34.05	14
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n7 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	5305.00	-63.57	3.40	12.50	Vertical	-54.47	-25.00	29.47	0
	3	7957.50	-54.52	4.40	12.20	Vertical	-46.72	-25.00	21.72	32
	4	10610.00	-55.18	4.70	11.30	Vertical	-48.58	-25.00	23.58	155
	5	13262.50	-51.56	5.40	13.20	Vertical	-43.76	-25.00	18.76	266
	6	15915.00	-50.93	6.10	13.10	Vertical	-43.93	-25.00	18.93	48
	7	18567.50	--	--	--	--	--	--	--	--
	8	21220.00	--	--	--	--	--	--	--	--
	9	23872.50	--	--	--	--	--	--	--	--
	10	26525.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n12 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1410.00	-70.18	1.70	8.70	Vertical	-65.325	-13.00	52.33	79
	3	2115.00	-74.68	2.10	11.10	Vertical	-67.834	-13.00	54.83	14
	4	2820.00	-68.48	2.30	13.10	Vertical	-59.829	-13.00	46.83	25
	5	3525.00	-64.70	2.60	12.70	Vertical	-56.75	-13.00	43.75	22
	6	4230.00	-61.05	3.30	12.50	Vertical	-54.00	-13.00	41.00	17
	7	4935.00	-59.70	3.40	12.50	Vertical	-52.75	-13.00	39.75	298
	8	5640.00	-60.20	3.30	12.50	Vertical	-53.15	-13.00	40.15	37
	9	6345.00	-57.81	3.80	11.50	Vertical	-52.26	-13.00	39.26	152
	10	7050.00	-57.18	4.20	11.80	Vertical	-51.73	-13.00	38.73	8
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n13 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1559.70	-67.00	1.70	8.70	Vertical	-62.153	-40.00	22.15	149
	3	2338.21	-68.23	2.10	12.00	Vertical	-60.483	-13.00	47.48	14
	4	3118.00	-66.63	2.30	13.10	Vertical	-57.98	-13.00	44.98	22
	5	3897.50	-61.84	2.90	12.50	Vertical	-54.39	-13.00	41.39	17
	6	4677.00	-60.67	3.10	12.50	Vertical	-53.42	-13.00	40.42	298
	7	5456.50	-59.59	3.30	12.50	Vertical	-52.54	-13.00	39.54	37
	8	6236.00	-59.63	3.50	12.80	Vertical	-52.48	-13.00	39.48	152
	9	7015.50	-57.84	4.20	11.80	Vertical	-52.39	-13.00	39.39	8
	10	7795.00	-54.05	4.40	12.30	Vertical	-48.30	-13.00	35.30	154
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n14 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1581.64	-68.23	1.70	8.70	Vertical	-63.382	-40.00	23.38	149
	3	2371.50	-67.32	2.30	12.00	Vertical	-59.768	-13.00	46.77	14
	4	3162.00	-66.58	2.30	13.10	Vertical	-57.93	-13.00	44.93	22
	5	3952.50	-63.02	2.90	12.50	Vertical	-55.57	-13.00	42.57	17
	6	4743.00	-60.30	3.10	12.50	Vertical	-53.05	-13.00	40.05	298
	7	5533.50	-60.37	3.30	12.50	Vertical	-53.32	-13.00	40.32	37
	8	6324.00	-57.31	3.80	11.50	Vertical	-51.76	-13.00	38.76	152
	9	7114.50	-55.40	4.20	11.80	Vertical	-49.95	-13.00	36.95	8
	10	7905.00	-52.39	4.40	12.30	Vertical	-46.64	-13.00	33.64	154
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n25 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3745.00	-65.13	2.60	12.50	Vertical	-55.23	-13.00	42.23	180
	3	5617.50	-62.36	3.30	12.50	Vertical	-53.16	-13.00	40.16	240
	4	7490.00	-56.93	4.20	12.20	Vertical	-48.93	-13.00	35.93	75
	5	9362.50	-52.86	4.30	11.10	Vertical	-46.06	-13.00	33.06	160
	6	11235.00	-52.66	5.90	11.90	Vertical	-46.66	-13.00	33.66	95
	7	13107.50	-51.07	5.70	14.00	Vertical	-42.77	-13.00	29.77	14
	8	14980.00	-54.13	5.80	13.10	Vertical	-46.83	-13.00	33.83	23
	9	16852.50	-52.12	6.10	14.60	Vertical	-43.62	-13.00	30.62	12
	10	18725.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n26 (824 ~ 849) CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1668.00	-69.99	1.70	8.70	Vertical	-65.14	-13.00	52.14	15
	3	2503.27	-59.88	2.30	12.00	Vertical	-52.33	-13.00	39.33	156
	4	3336.00	-67.83	2.70	12.70	Vertical	-59.98	-13.00	46.98	180
	5	4170.00	-66.62	3.00	12.50	Vertical	-59.27	-13.00	46.27	240
	6	5004.00	-64.08	3.40	12.50	Vertical	-57.13	-13.00	44.13	75
	7	5838.00	-62.49	3.40	12.80	Vertical	-55.24	-13.00	42.24	160
	8	6672.00	-56.25	4.10	11.50	Vertical	-51.00	-13.00	38.00	95
	9	7506.00	-53.01	4.20	12.20	Vertical	-47.16	-13.00	34.16	14
	10	8340.00	-55.32	4.30	12.50	Vertical	-49.27	-13.00	36.27	23
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n26 (814 ~ 824) CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1633.00	-70.31	1.70	8.70	Vertical	-65.46	-13.00	52.46	22
	3	2449.50	-62.53	2.30	12.00	Vertical	-54.98	-13.00	41.98	55
	4	3266.00	-68.55	2.20	13.10	Vertical	-59.80	-13.00	46.80	23
	5	4082.50	-66.26	3.00	12.50	Vertical	-58.91	-13.00	45.91	240
	6	4899.00	-64.56	3.10	12.50	Vertical	-57.31	-13.00	44.31	4
	7	5715.00	-62.24	3.40	12.50	Vertical	-55.29	-13.00	42.29	160
	8	6532.00	-59.35	3.80	11.50	Vertical	-53.80	-13.00	40.80	95
	9	7348.50	-52.98	4.20	12.20	Vertical	-47.13	-13.00	34.13	14
	10	8165.00	-55.00	4.30	12.30	Vertical	-49.15	-13.00	36.15	23
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n30 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
10MHz	2	4610.00	-70.58	3.10	12.50	Vertical	-61.18	-40.00	21.18	180
	3	6915.00	-68.13	4.20	11.80	Vertical	-60.53	-40.00	20.53	240
	4	9220.00	-62.08	4.30	11.60	Vertical	-54.78	-40.00	14.78	75
	5	11525.00	-61.38	5.90	11.90	Vertical	-55.38	-40.00	15.38	160
	6	13830.00	-57.56	5.70	11.30	Vertical	-51.96	-40.00	11.96	95
	7	16135.00	-69.49	6.00	17.00	Vertical	-58.49	-40.00	18.49	14
	8	18440.00	--	--	--	--	--	--	--	--
	9	20745.00	--	--	--	--	--	--	--	--
	10	23050.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n38 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	5180.98	-61.68	3.20	12.50	Vertical	-52.38	-25.00	27.38	180
	3	7771.47	-59.22	4.40	12.30	Vertical	-51.32	-25.00	26.32	240
	4	10361.96	-57.15	4.70	11.80	Vertical	-50.05	-25.00	25.05	75
	5	12952.45	-54.37	5.40	14.00	Vertical	-45.77	-25.00	20.77	160
	6	15542.94	-62.16	6.10	16.80	Vertical	-51.46	-25.00	26.46	95
	7	18133.43	--	--	--	--	--	--	--	--
	8	20723.92	--	--	--	--	--	--	--	--
	9	23314.41	--	--	--	--	--	--	--	--
	10	25904.90	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n41 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	5135.98	-61.20	3.20	12.50	Vertical	-51.90	-25.00	26.90	46
	3	7703.97	-57.78	4.40	12.30	Vertical	-49.88	-25.00	24.88	98
	4	10271.96	-55.77	4.70	11.80	Vertical	-48.67	-25.00	23.67	174
	5	12839.95	-52.45	5.40	14.00	Vertical	-43.85	-25.00	18.85	33
	6	15407.94	-61.26	6.10	16.80	Vertical	-50.56	-25.00	25.56	24
	7	17975.93	--	--	--	--	--	--	--	--
	8	20543.92	--	--	--	--	--	--	--	--
	9	23111.91	--	--	--	--	--	--	--	--
	10	25679.90	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n48 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	7230.00	-57.74	2.50	11.35	Vertical	-48.89	-13.00	35.89	46
	3	10845.00	-55.21	4.20	12.05	Vertical	-47.36	-13.00	34.36	98
	4	14460.00	-52.13	5.50	14.23	Vertical	-43.40	-13.00	30.40	174
	5	18075.00	--	--	--	--	--	--	--	--
	6	21690.00	--	--	--	--	--	--	--	--
	7	25305.00	--	--	--	--	--	--	--	--
	8	28920.00	--	--	--	--	--	--	--	--
	9	32535.00	--	--	--	--	--	--	--	--
	10	36150.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n53 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	4970.50	-60.24	3.20	12.50	Vertical	-50.94	-13.00	37.94	14
	3	7455.75	-52.67	4.40	12.30	Vertical	-44.77	-13.00	31.77	22
	4	9941.00	-55.62	4.70	11.80	Vertical	-48.52	-13.00	35.52	175
	5	12426.25	-54.67	5.40	14.00	Vertical	-46.07	-13.00	33.07	28
	6	14911.50	-55.18	6.10	16.80	Vertical	-44.48	-13.00	31.48	76
	7	17396.75	-54.49	6.10	14.20	Vertical	-46.39	-13.00	33.39	28
	8	19882.00	--	--	--	--	--	--	--	--
	9	22367.25	--	--	--	--	--	--	--	--
	10	24852.50	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n66 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3450.00	-75.58	2.70	12.70	Vertical	-65.58	-13.00	52.58	14
	3	5175.00	-68.60	3.20	12.50	Vertical	-59.30	-13.00	46.30	22
	4	6900.00	-67.51	4.20	11.80	Vertical	-59.91	-13.00	46.91	17
	5	8625.00	-62.54	4.40	12.50	Vertical	-54.44	-13.00	41.44	298
	6	10350.00	-63.63	4.70	11.80	Vertical	-56.53	-13.00	43.53	37
	7	12075.00	-62.68	5.20	13.80	Vertical	-54.08	-13.00	41.08	152
	8	13800.00	-60.28	5.70	13.20	Vertical	-52.78	-13.00	39.78	8
	9	15525.00	-68.79	6.10	16.80	Vertical	-58.09	-13.00	45.09	46
	10	17250.00	-59.66	6.10	14.20	Vertical	-51.56	-13.00	38.56	78
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n70 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3400.00	-66.51	2.70	12.70	Vertical	-56.51	-13.00	43.51	14
	3	5100.00	-60.62	3.20	12.50	Vertical	-51.32	-13.00	38.32	22
	4	6800.00	-55.64	4.20	11.80	Vertical	-48.04	-13.00	35.04	175
	5	8500.00	-53.18	4.40	12.50	Vertical	-45.08	-13.00	32.08	28
	6	10200.00	-54.73	4.70	11.80	Vertical	-47.63	-13.00	34.63	76
	7	11900.00	-54.88	5.20	13.80	Vertical	-46.28	-13.00	33.28	28
	8	13600.00	-50.84	5.70	13.20	Vertical	-43.34	-13.00	30.34	14
	9	15300.00	-55.33	6.10	16.80	Vertical	-44.63	-13.00	31.63	62
	10	17000.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n71 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
5MHz	2	1356.00	-70.64	1.70	8.70	Vertical	-65.786	-13.00	52.79	286
	3	2034.00	-75.62	2.10	11.10	Vertical	-68.77	-13.00	55.77	11
	4	2712.00	-70.62	2.30	13.10	Vertical	-61.974	-13.00	48.97	36
	5	3390.00	-65.20	2.60	12.70	Vertical	-57.25	-13.00	44.25	22
	6	4068.00	-62.07	3.30	12.50	Vertical	-55.02	-13.00	42.02	17
	7	4746.00	-59.75	3.40	12.50	Vertical	-52.80	-13.00	39.80	298
	8	5424.00	-59.27	3.30	12.50	Vertical	-52.22	-13.00	39.22	37
	9	6102.00	-57.96	3.80	11.50	Vertical	-52.41	-13.00	39.41	152
	10	6780.00	-56.95	4.20	11.80	Vertical	-51.50	-13.00	38.50	8
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n77 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	7000.00	-59.29	4.2	11.80	Vertical	-51.69	-13.00	38.69	1
	3	10500.00	-56.11	5.1	13.00	Vertical	-48.21	-13.00	35.21	315
	4	14000.00	-51.45	5.8	12.80	Vertical	-44.45	-13.00	31.45	27
	5	17500.00	--	--	--	--	--	--	--	--
	6	21000.00	--	--	--	--	--	--	--	--
	7	24500.00	--	--	--	--	--	--	--	--
	8	28000.00	--	--	--	--	--	--	--	--
	9	31500.00	--	--	--	--	--	--	--	--
	10	35000.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n78 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	6980.00	-59.24	4.2	11.80	Vertical	-51.64	-13.00	38.64	1
	3	10470.00	-56.04	5.1	13.00	Vertical	-48.14	-13.00	35.14	315
	4	13960.00	-50.52	5.8	12.80	Vertical	-43.52	-13.00	30.52	27
	5	17450.00	-49.72	6.0	10.10	Vertical	-45.62	-13.00	32.62	24
	6	20940.00	--	--	--	--	--	--	--	--
	7	24430.00	--	--	--	--	--	--	--	--
	8	27920.00	--	--	--	--	--	--	--	--
	9	31410.00	--	--	--	--	--	--	--	--
	10	34900.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.